What is claimed is:

1 A moving picture high-speed coder that executes an inter-frame predictive coding for a moving picture, comprises:

5   vector retrieval means that detect a motion vector by a macro block unit among subject pictures that were input to find a predictive macro block with highest compression efficiency; and

      compression type determination means for determining

10   whether said macro block found in said vector retrieval means is an intra-frame coding or an inter-frame coding, wherein, when said optimum predictive vector can not be found in said compression type determination means and coding efficiency remains unchanged even though intra-

15   frame compression and fixation was carried out for entirety of a frame, only intra-frame compression is carried out.

2 The moving picture high-speed coder according to claim 1, wherein, if number of said macro blocks one frame,

20   which were determined as said intra-frame coding in said compression type determination means, is more than a threshold, until same determination is made again at moment of compressing a next key frame indicating said intra-frame coding, all macro blocks are compressed with

25   said intra-frame coding.

3 The moving picture high-speed coder according to claim 2, wherein, only in case that number of said macro blocks determined continuously as said intra-frame coding in frames, of which number is optional but more than two, exceeded a threshold, all macro blocks are compressed with said intra-frame coding.

4 The moving picture high-speed coder according to claim 1, wherein, at time of carrying out only said intra-frame compression, said inter-frame predictive coding is not executed to omit a reference frame preparation process.

5 The moving picture high-speed coder according to anyone of claim 1, wherein, in case of carrying out only said intra-frame compression, only when a turn came of compressing a key frame indicating said intra-frame coding, said predictive vector is found to determine whether or not only said intra-frame compression is continued.

6 A moving picture high-speed coding method that executes an inter-frame predictive coding for a moving picture, comprises steps of:

detecting a motion vector by a macro block unit among subject pictures that were input to find a predictive macro block with highest compression efficiency; and

determining whether its found macro block is an intra-frame coding or an inter-frame coding, wherein, when an optimum predictive vector can not be found at moment of

determining said intra-frame coding or said inter-frame coding and coding efficiency remains unchanged even though intra-frame compression and fixation is carried out for entirety of a frame, only intra-frame compression is carried out.

7 The moving picture high-speed coding method according to claim 6, wherein, at moment of determining said intra-frame coding or said inter-frame coding, if number of said macro blocks a frame, which were determined as said intra-frame coding in said compression type determination means, is more than a threshold, until same determination is made again at moment of compressing a next key frame indicating said intra-frame coding, all macro blocks are compressed with said intra-frame coding.

8 The moving picture high-speed coding method according to claim 7, wherein, only in case that number of said macro blocks determined continuously as said intra-frame coding in frames, of which umber is optional but more than two, exceeded a threshold, all macro blocks are compressed with said intra-frame coding.

9 The moving picture high-speed coding method according to claim 6, wherein, in case of carrying out only said intra-frame compression, said intra-frame predictive coding is not executed to omit a reference frame preparation process.

10 The moving picture high-speed coding method according
to claim 6, wherein, in case of carrying out only said
intra-frame compression, only when a turn came of
compressing a key frame indicating said intra-frame coding,

5 said predictive vector is found to determine whether or
not only said intra-frame compression is continued.